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27182 7590 11/20/2006
PRAXAIR, INC.
LAW DEPARTMENT - M1 557
39 OLD RIDGEBURY ROAD
DANBURY, CT 06810-5113
11/29/2006 ADDRESS 00000104 162440 10806428

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

JOANN M. JELSA (Depositor's name)
Joann M. Jelsa (Signature)
11/29/06 (Date)

01 FC:1501 1400.00 DA
02 FC:1504 300.00 DA
03 FC:8001 30.00 DA

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/806,428 | 03/23/2004 | Nancy Jean Lynch | D-21414 | 2941 |

TITLE OF INVENTION: METHOD FOR OPERATING A PULSE TUBE CRYOCOOLER SYSTEM WITH MEAN PRESSURE VARIATIONS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300 | \$0 | \$1700 | 02/20/2007 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---------------------------|----------|----------------|
| DOERRLER, WILLIAM CHARLES | 3744 | 062-006000 |

| | | |
|---|--|---|
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev. 03-02 or more recent) attached. Use of a Customer Number is required. | 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | 1 <u>David M. Rosenblum</u> 2 _____ 3 _____ |
|---|--|---|

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) **NAME OF ASSIGNEE** **PRAXAIR TECHNOLOGY, INC.**
(B) **RESIDENCE: (CITY and STATE OR COUNTRY)** **39 Old Ridgebury Road, Danbury, CT. 06810**

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

| | |
|--|---|
| 4a. The following fee(s) are submitted: <input checked="" type="checkbox"/> Issue Fee <input checked="" type="checkbox"/> Publication Fee (No small entity discount permitted) <input checked="" type="checkbox"/> Advance Order - # of Copies <u>10</u> | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) <input type="checkbox"/> A check is enclosed. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <input checked="" type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number <u>162440</u> (enclose an extra copy of this form). |
|--|---|

5. Change in Entity Status (from status indicated above)
☐ a. Applicant claims **SMALL ENTITY** status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming **SMALL ENTITY** status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature David M. Rosenblum Date 11/28/06
Typed or printed name David M. Rosenblum Registration No. 29,341

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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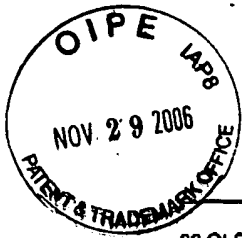
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10:47

FROM: Law Dept. Praxair, Inc.

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T-172 P.001/003 F-239



PRAXAIR, INC.

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203-837-2161/FAX: 203 837-2545

LAW DEPARTMENT
JOANN M. JELSA

E-mail: joann_jelsa@praxair.com

fax transmission cover sheet

November 29, 2006

PLEASE DELIVER TO: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA. 22313-1450

Fax Number: 9-1-571-273-2885

From: Joann M. Jelsa
Phone Number: 203-837-2161
Fax Number: 203-837-2545

Re: Title: Method For Operating A Pulse Tube Cryocooler
System With Mean Pressure Variations
S/N 10/806,428 Filed 03/23/04
Our Ref.: D-21414

Attached are:

1. Cover sheet
2. Part B-Issue fee transmittal (2 copies)